

Title (en)

Improved method and apparatus for preheating ventilation air for a building.

Title (de)

Verfahren und Vorrichtung zur Vorwärmung der Luft zur Lüftung eines Gebäudes.

Title (fr)

Méthode et appareils modifiés de préchauffage de l'air de ventilation dans un immeuble.

Publication

EP 0380349 B1 19931201 (EN)

Application

EP 90300815 A 19900125

Priority

US 30235989 A 19890127

Abstract (en)

[origin: EP0553893A2] Ventilation air for a building is preheated by providing on a sun-facing wall a solar-energy absorbent collector panel with a plurality of air-inlet openings which communicate with air collection channels behind the panel. Outside air passing upwardly along the panel is heated by the heat of the panel which itself is heated by a combination of solar radiation and heat being lost from the interior of the building. The outside air, passing upwardly a short distance along the panel to the closest air inlet opening, is withdrawn therethrough into the air collection channel and expelled into the interior of the building. <IMAGE>

IPC 1-7

F24J 2/04; F24J 2/20; F24F 7/06

IPC 8 full level

E04D 13/18 (2006.01); **F24D 5/00** (2006.01); **F24J 2/04** (2006.01); **F24S 10/80** (2018.01)

CPC (source: EP US)

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Cited by

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US 4899728 A 19900213; AT E158855 T1 19971015; AT E98010 T1 19931215; CA 1326619 C 19940201; DE 69004816 D1 19940113; DE 69004816 T2 19940526; DE 69031540 D1 19971106; DE 69031540 T2 19980129; DK 0380349 T3 19940328; DK 0553893 T3 19971222; EP 0380349 A1 19900801; EP 0380349 B1 19931201; EP 0553893 A2 19930804; EP 0553893 A3 19931027; EP 0553893 B1 19971001; ES 2048964 T3 19940401; ES 2106908 T3 19971116; HK 1001925 A1 19980717; US 4934338 A 19900619

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